Aeronautics Educator Guide 2007 Science							
Grade Level and High School Content Expectations							
Michigan Science							
Grade 2							
Activity/Lesson	State	Standards					
Activity/Lesson	Otate	Otaridards					
Air Engines (12-16)	MI	SCI 2 S IP 02 12	Generate questions based on observations.				
Air Engines (12-16)	IVII	301.2.3.11 .02.12	Generate questions based on observations.				
All Linglines (12-10)			Communicate and present findings of				
Air Engines (12-16)	MI	SCI.2.S.IA.02.13					
All Eligines (12-10)	IVII	3C1.2.3.1A.02.13	observations.				
Rotor Motor (69-75)	MI	SCI 2 S IP 02 13	Plan and conduct simple investigations.				
TOTOL WOLD (00 10)	IVII	001.2.0.11 .02.10	i lan and conduct simple investigations.				
Flight: Interdisciplinary							
Learning Activities (76-							
79)	MI	SCI 2 S IP02 13	Plan and conduct simple investigations.				
19)	IVII	001.2.0.11 .02.13	Develop strategies and skills for information				
Flight: Interdisciplinary			gathering and problem solving (books, internet,				
Learning Activities (76-			ask an expert, observation, investigation,				
79)	MI	SCI 2 S IA 02 14	technology tools).				
Making Time Fly (80-	IVII	3CI.Z.3.IA.UZ.14	Communicate and present findings of				
	MI	SCI.2.S.IA.02.13					
86) Where is North? The	IVII	3CI.Z.3.IA.UZ. 13	observations.				
Compass Can Tell Us	8.41	001 0 0 10 00 40					
(87-90)	MI	SCI.2.S.IP.02.12	Generate questions based on observations.				
Where is North? The							
Compass Can Tell Us		001 0 0 10 00 40					
(87-90)	MI	SCI.2.S.IP.02.13	Plan and conduct simple investigations.				
Dunked Napkin (17-		0010010010					
22)	MI	SCI.2.S.IP.02.12	Generate questions based on observations.				
Dunked Napkin (17-							
22)	MI	SCI.2.S.IP.02.13	Plan and conduct simple investigations.				
Paper Bag Mask (23-							
28)	MI	SCI.2.S.IP.02.12	Generate questions based on observations.				
			Manipulate simple tools (ruler, meter stick,				
			measuring cups, hand lens, thermometer,				
Paper Bag Mask (23-			balance) that aid observation and data				
28)	MI	SCI.2.S.IP.02.14					
			Make accurate measurements with appropriate				
Paper Bag Mask (23-			units (meter, centimeter) for the measurement				
28)	MI	SCI.2.S.IP.02.15	tool.				
Wind in Your Socks)							
(29-35)	MI	SCI.2.S.IP.02.12	Generate questions based on observations.				
			Manipulate simple tools (ruler, meter stick,				
			measuring cups, hand lens, thermometer,				
Wind in Your Socks)			balance) that aid observation and data				
(29-35)	MI	SCI.2.S.IP.02.14					
			Make accurate measurements with appropriate				
Wind in Your Socks)			units (meter, centimeter) for the measurement				
(29-35)	MI	SCI.2.S.IP.02.15					
Wind in Your Socks)			Communicate and present findings of				
(29-35)	MI	SCI.2.S.IA.02.13	observations.				

Wind in Vour Cooks)	1	CCL 2 D DM 02 4	Magazina the langth of chicate value wileys				
Wind in Your Socks)	N 41		Measure the length of objects using rulers				
(29-35)	MI	3	(centimeters) and meter sticks (meters).				
Sled Kite (44-51)	MI	SCI 2 S ID 02 12	Generate questions based on observations.				
Sieu Kile (44-51)	IVII	3C1.2.3.1F.02.12	Manipulate simple tools (ruler, meter stick,				
			measuring cups, hand lens, thermometer,				
Clad Kita (44 E4)	N 41	CCI 2 C ID 02 44	balance) that aid observation and data				
Sled Kite (44-51)	MI	SCI.2.S.IP.02.14	collection.				
	Δον	│ onautics Educato	or Guide				
2007 Science							
Grade Level and High School Content Expectations							
Michigan Science			,				
Grade 3							
Activity/Lesson	State	Standards					
,			Make purposeful observation of the natural				
Air Engines (12-16)	MI	SCI.3.S.IP.03.11	world using the appropriate senses.				
			<u> </u>				
Air Engines (12-16)	MI	SCI.3.S.IP.03.12	Generate questions based on observations.				
Rotor Motor (69-75)	MI	SCI.3.S.IP.03.13	Plan and conduct simple and fair investigations.				
			Manipulate simple tools that aid observation and				
			data collection (for example: hand lens, balance,				
			ruler, meter stick, measuring cup, thermometer,				
Rotor Motor (69-75)	MI	SCI.3.S.IP.03.14	spring scale, stop watch/timer).				
Flight: Interdisciplinary							
Learning Activities (76-							
79)	MI	SCI.3.S.IP.03.13	Plan and conduct simple and fair investigations.				
Making Time Fly (80-			Communicate and present findings of				
86)	MI	SCI.3.S.IA.03.13	observations and investigations.				
Making Time Fly (80-		SCI.3.S.RS.03.1	Describe how people have contributed to				
86)	MI	9	science throughout history and across cultures.				
Where is North? The							
Compass Can Tell Us							
(87-90)	MI	SCI.3.S.IP.03.12	Generate questions based on observations.				
Where is North? The							
Compass Can Tell Us			Communicate and present findings of				
(87-90)	MI	SCI.3.S.IA.03.13	observations and investigations.				
			Describe helpful or harmful effects of humans on				
We Can Fly, You and			the environment (garbage, habitat destruction,				
I: Interdisciplinary		SCI.3.E.ES.03.5	land management, renewable and non-				
Learning (107-108)	MI	2	renewable resources).				
Dunked Napkin (17-							
22)	MI	SCI.3.S.IP.03.12	Generate questions based on observations.				
Dunked Napkin (17-			Communicate and present findings of				
22)	MI	SCI.3.S.IA.03.13	observations and investigations.				
			Make accurate measurements with appropriate				
Paper Bag Mask (23-			units (centimeters, meters, Celsius, grams,				
28)	MI	SCI.3.S.IP.03.15	seconds, minutes) for the measurement tool.				
Paper Bag Mask (23-			Communicate and present findings of				
28)	MI	SCI.3.S.IA.03.13	observations and investigations.				

Mr. 1: M 0 1)		I	
Wind in Your Socks)		0010010011	Make purposeful observation of the natural
(29-35)	MI	SCI.3.S.IP.03.11	world using the appropriate senses.
Wind in Your Socks)			
(29-35)	MI	SCI.3.S.IP.03.12	Generate questions based on observations.
Wind in Your Socks)			Communicate and present findings of
(29-35)	MI	SCI.3.S.IA.03.13	observations and investigations.
Sled Kite (44-51)	MI	SCI.3.S.IP.03.12	Generate questions based on observations.
			Manipulate simple tools that aid observation and
			data collection (for example: hand lens, balance,
			ruler, meter stick, measuring cup, thermometer,
Sled Kite (44-51)	MI	SCI.3.S.IP.03.14	spring scale, stop watch/timer).
	Aer	onautics Educate	or Guide
		2007 Science	
	Grade Level an	d High School Co	ontent Expectations
Michigan Science			
Grade 4			
Activity/Lesson	State	Standards	
			Make purposeful observation of the natural
Air Engines (12-16)	MI	SCI.4.S.IP.04.11	world using the appropriate senses.
3 (,			J. J
Air Engines (12-16)	MI	SCI.4.S.IP.04.12	Generate questions based on observations.
:gee (:_ :e)			Summarize information from charts and graphs
Rotor Motor (69-75)	MI	SCI 4 S IA 04 11	to answer scientific questions.
rteter meter (ee re)			to dilever edicitano questione.
Flight: Interdisciplinary			
Learning Activities (76-			
79)	MI	SCI 4 S IP 04 13	Plan and conduct simple and fair investigations.
Making Time Fly (80-	IVII	001.4.0.11 .04.10	Communicate and present findings of
86)	MI	SCI 4 S IA 04 13	observations and investigations.
Making Time Fly (80-	IVII		Describe how people have contributed to
86)	MI	9	science throughout history and across cultures.
Where is North? The	IVII	9	science throughout history and across cultures.
Compass Can Tell Us			Summarize information from charts and graphs
(87-90)	MI	SCI 4 S IA 04 11	to answer scientific questions.
Where is North? The	IVII	JUI.4.J.IA.U4. II	to answer scientific questions.
			Communicate and propert findings of
Compass Can Tell Us	N 41	CCI 4 C IA 04 42	Communicate and present findings of
(87-90)	MI	301.4.3.IA.U4. I3	observations and investigations. Communicate and present findings of
Dunked Napkin (17-	NAL	00140140440	
22)	MI	3UI.4.3.IA.U4.13	observations and investigations.
Paper Bag Mask (23-	N 41	001.4.0.10.04.40	
28)	MI	SCI.4.S.IP.04.12	Generate questions based on observations.
			Manipulate simple tools that aid observation and
			data collection (for example: hand lens, balance,
D D 14 1 (66			ruler, meter stick, measuring cup, thermometer,
Paper Bag Mask (23-		001 4 0 17 5 4 11	spring scale, stop watch/timer, graduated
28)	MI	SCI.4.S.IP.04.14	cylinder/beaker).
Wind in Your Socks)			
(29-35)	MI	SCI.4.S.IP.04.12	Generate questions based on observations.

Wind in Your Socks) (29-35)	MI	SCI.4.S.IP.04.14	Manipulate simple tools that aid observation and data collection (for example: hand lens, balance, ruler, meter stick, measuring cup, thermometer, spring scale, stop watch/timer, graduated cylinder/beaker).
Wind in Your Socks)			Communicate and present findings of
(29-35)	MI	SCI.4.S.IA.04.13	observations and investigations.
Sled Kite (44-51)	МІ	SCI.4.S.IP.04.12	Generate questions based on observations.
			Manipulate simple tools that aid observation and data collection (for example: hand lens, balance,
			ruler, meter stick, measuring cup, thermometer,
			spring scale, stop watch/timer, graduated
Sled Kite (44-51)	MI	SCI.4.S.IP.04.14	cylinder/beaker).